

wherein inputted voice signals are converted by voice data transmitting/receiving means into a format which can be transmitted across the ICS network, and are transmitted to the telephone machine on the receiving side, and thereafter, telephone communication is carried out by transmitting and receiving ICS user frames between the originating user and the destination user.

186. A communication method, wherein two telephone machines communicate with each other across the integrated information communication system (ICS) claimed in claim 185.

187. An integrated information communication system comprising two or more access control devices, wherein a transmission ICS user frame is inputted from an ICS logical terminal at a termination of a user communication line, and the transmission ICS user frame becomes an ICS network frame in an access control device of a transmitting side, and the ICS network frame is transferred through an interior of the integrated information communication system and reaches an access control device of an incoming side, and the ICS network frame is restored as the ICS user frame in the access control device of the incoming side, and when telephone communication is carried out, an ICS user address of a communication destination is acquired on the basis of a telephone number, and a voice is carried on a ICS user frame.